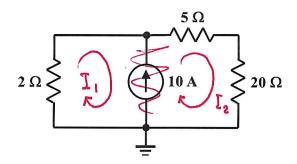
EE 2240 Homework Problem #027

Assign mesh currents and express the mesh equations in the matrix form discussed in class.



Do not attempt to solve the equations.

 $I_{2} - E_{1} = IOA \quad (constraint)$   $2 I_{1} + 5 I_{2} + 20 I_{2} = 0 \quad (KVL \ lor \ supermesh)$   $In \quad matrix. \ form:$   $\begin{bmatrix} -1 & 1 \\ 2 & 5+20 \end{bmatrix} \begin{bmatrix} I_{2} \\ I_{2} \end{bmatrix} = \begin{bmatrix} IO \\ O \end{bmatrix}$